AME 30358 – Score Sheet

M9 – Remote Control Systems

Name(s):_____

The following items will be *demonstrated* to the lab instructor during the allotted lab time. Credit will not be given for portions completed outside of lab.

Item and Description	Points Awarded	Possible Points
Part I: Brushless Motor The brushless motor spins at a speed proportional to the pulse width.		5
Part II: Remote Control The mapping of the controls-to-channels is correctly written in the lab notebook. The brushless motor and servo are controlled by the joystick(s) on the transmitter.		5
Design Challenge 1 – Flight Control System The brushless motor and servos are correctly laid out on the printed airplane drawing. The joysticks control the correct actuators: • Left joystick up-down - Motor speed • Left joystick side-to-side - Rudder flap • Right joystick up-down - Elevator flaps • Right joystick side-to-side - Aileron flaps		4
Design Challenge 2 – 2-Axis Pan and Tilt The two servos are mounted with perpendicular axes. The student is able to point at a specified object via the remote control.		6
Clean-up The students returned the lab bench to its initial state.		2
TOTAL		22